IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

1. (currently amended)A storage—system constructed by communicably connecting having a first storage—controller of a virtualization system and a second storage—controller of a disk array system, said second controller being coupled to said first controller, said system and performing data processing according to a request from a host device,

wherein said first storage controller has mapping information which indicates relations between at least one or more first logical units unit accessed by said host device, and at least one or more intermediate logical device memory hierarchies arranged so as to connect this logical unit and at least one or more memory devices, and

at least one of said intermediate memory hierarchies is connected to a memory device arranged in said second storage controllerwherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization function of said first controller.

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN.

2. (currently amended)A system having a first controller of a virtualization system, memory control device communicably connected to a host device and a second storage controller of a disk array system, said

second controller being coupled to said first controller, said system and performing data processing according to a request from <u>a_said_host device</u>, and said first controller comprising:

a memory having stored therein mapping information which indicates relations between at least one or more first logical units unit accessed by said host device; and at least one or more intermediate logical device, memory hierarchies arranged so as to connect said logical unit and at least one or more memory devices;

wherein at least one of said intermediate memory hierarchies is connected to the memory device arranged in said second storage controller

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization function of said first controller.

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN.

3. (currently amended) The <u>system memory control device</u> according to claim 2, wherein said intermediate <u>logical device memory</u> hierarchy—is constructed by arranging at least one <u>level of or more</u>—first memory—hierarchies—set on said memory—device, and at least one <u>level of or more</u>—second memory <u>hierarchies—hierarchically arranged at a level above the at least one level of set on this-first memory—hierarchy</u>, and

wherein a the memory device arranged in said second storage controller is mapped to said the at least one level of first memory-hierarchy.

4. (currently amended) The <u>system memory control device</u> according to claim 2, wherein <u>said first controller</u> the memory control device further comprises:

a plurality of plural said logical units which can able to be accessed from said host device through plural paths different from each other, and

<u>wherein</u> each of said logical units is <u>related</u> connected to each of said at least one intermediate <u>devicememory hierarchies</u>.

5. (currently amended) A storage controller communicably connected to a host device and another storage controller and performing data processing according to a request from said host device, said storage controller comprising:

at least one logical unit accessed by said host device;

at least one intermediate memory hierarchy arranged to connect said at least one logical unit and at least one memory device;

wherein at least one of said at least one intermediate memory
hierarchy is connected to the at least one memory device which is arranged in
said another storage controllerThe memory control device according to claim
2; and

wherein the memory control device further comprises path information obtaining means for obtaining path information to said <u>at least one</u> memory device arranged in said <u>another second</u>-storage controller, and

wherein said each path information is recognized as path information to the same memory device when said obtained path information exists in the plural.

6. (currently amended) A control method of a system having a first controller of a virtualization system and a second controller of a disk array system, said second controller being coupled to said first controller, said control method performing data processing according to a request from a host device, comprising the steps of: wherein said first controller has mapping information which indicates relations between at least one first logical unit accessed by said host device and at least one intermediate logical device, wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization function of said first controller. wherein said first logical unit is related to a first logical unit number (LUN), and wherein said second logical unit is related to a second LUN, memory control device communicably connected to a host device and a second storage controller and performing data processing according to a request-from said host device, and including: a step for obtaining path information to a memory device arranged in said second storage-controller; and a step for mapping said obtained path information to said an intermediate logical device memory hierarchy-connected to asaid at least one logical unit accessed by said host device.

7. (currently amended) A computer program, stored on a storage medium, for performing data processing according to a request from a host

device in a system having a first controller of a virtualization system and a second controller of a disk array system, said second controller being coupled to said first controller, said computer program when executed causes said system to perform the steps of:

wherein said first controller has mapping information which indicates relations between at least one first logical unit accessed by said host device and at least one intermediate logical device.

wherein said intermediate logical device is related to a second logical unit of said second controller by a virtualization function of said first controller.

wherein said first logical unit is related to a first logical unit number (LUN), and

wherein said second logical unit is related to a second LUN for setting a memory device arranged in a second storage controller to a memory control device as an internal volume, and making the computer execute:

a step for obtaining path information to the memory device arranged in said second storage controller; and

a step for mapping said obtained path information to an intermediate logical device memory hierarchy connected to asaid at least one logical unit accessed by said host device.

Claims 8 and 9 (canceled).